

CLAIMS

- 1 1. A disk drive carrier comprising:  
2 a base for receiving a disk drive; and  
3 a latching mechanism rotatably attached to the base permitting a lever to rotate  
4 between an open position and a closed position;  
5 said lever having a lower engagement point and an upper engagement point.
- 1 2. The disk drive carrier of claim 1 additionally comprising a release tab attached to the  
2 upper engagement point, said release tab being downwardly movable.
- 1 3. The disk drive carrier of claim 1 wherein the lower engagement point comprises a  
2 lug.
- 1 4. The disk drive carrier of claim 1 wherein the upper engagement point comprises a  
2 shoulder.
- 1 5. The disk drive carrier of claim 1 additionally comprising a securement pad attached  
2 to the latching mechanism.
- 1 6. The disk drive carrier of claim 1 additionally comprising a handle calculating carrier  
2 insertion into the chassis, the handle being attached to the lever.
- 1 7. The disk drive carrier of claim 1 wherein the latching mechanism is formed of  
2 molded plastic.
- 1 8. The disk drive carrier of claim 1 wherein the latching mechanism comprises  
2 polycarbonate plastic.
- 1 9. A base for mounting a disk drive, the base comprising:  
2 a channel formed with an upper surface comprising a substantially flat interior, a  
3 lower surface comprising a substantially flat interior and a side wall with a finned  
4 exterior.
- 1 10. The base of claim 9 wherein the upper surface interior and the lower surface interior  
2 are contoured to compliment an exterior surface of a hard drive to be mounted  
3 between the upper and lower surfaces.
- 1 11. The base of claim 9 additionally comprising retention clips mounted in slots in the  
2 upper surface and slots in the lower surface.
- 1 12. The base of claim 9 wherein the retention clips comprise spring steel.

- 1 13. The base of claim 9 wherein the base comprises an electrically and thermally  
2 conductive material.
- 1 14. The base of claim 9 wherein the base comprises aluminum.
- 1 15. An electromagnetic interference shield attached to a disk drive carrier, said  
2 electromagnetic interference shield comprising:  
3 a multi-venthole frontal plate connected at a substantially right angle to a side panel;  
4 and  
5 the side panel housing at least one electrically conductive finger clip protruding in a  
6 lateral direction.
- 1 16. The electromagnetic interference shield of claim 15 wherein the shield comprises  
2 steel.
- 1 17. The electromagnetic interference shield of claim 15 wherein the conductive finger  
2 clip comprises spring steel.
- 1 18. A method for inserting a disk drive into a peripheral bay chassis comprising:  
2 receiving a disk drive into a base of a disk drive carrier, said base being rotatably  
3 attached to a latching mechanism, wherein a lever can rotate between an open  
4 position and a closed position, said lever having a lower engagement point and an  
5 upper engagement point;  
6 inserting the carrier into a peripheral bay chassis slot while the lever is in an open  
7 position; and  
8 rotating the lever to the closed position to engage the peripheral bay chassis with the  
9 lower engagement point and the upper engagement point.
- 1 19. The method of claim 18 with the additional step of contacting an adjacent disk drive  
2 with at least one electrically conductive finger clip prior to engagement of a high  
3 speed back plane with a disk drive connector.
- 1 20. The method of claim 18 with the additional step of depressing a release tab prior to  
2 rotating the lever into the closed position and releasing the release tab after engaging  
3 the lower engagement point.